

In The Claims:

Please cancel claim 2 and amend claims 1, 5, 29, 43, 44, 45 and 46 as follows:

1. (currently amended) ~~A~~ A multi-unit implant system comprising:  
a prosthesis having a structural framework material, composite material, or ceramic material and further comprising one or more cylinders;  
wherein the one or more cylinders comprises a substantially cylindrical body and one or more shelves are disposed on a surface of the substantially cylindrical body, and wherein the one or more shelves comprise one or more grooves having at least two sides, and wherein the one or more grooves comprise one or more horizontally extending grooves and one or more vertically extending grooves.
2. cancelled
3. (currently amended) The implant system of claim ~~2~~ 1 wherein the horizontally extending grooves are located on facial and lingual surfaces of the body and the vertically extending grooves are located on proximal surfaces of the body.
4. (previously presented) The implant system of claim 1 further comprising an opening extending axially through the body.
5. (currently amended) An implant system comprising:  
a framework comprising one or more cylinders, wherein the cylinders each comprise a substantially cylindrical body and one or more shelves disposed on a surface of the substantially cylindrical body, wherein the one or more shelves comprise one or more grooves having at least two sides; and fiber reinforced composite material retained on one or more ~~the~~ cylinders.
- 6 (previously presented). The implant system of claim 5 wherein the one or more shelves comprise one or more horizontally extending grooves, one or more vertically extending grooves, or a combination thereof.

7. (previously presented) The implant system of claim 5 wherein the one or more cylinders comprise a series of cylinders aligned in a curved line.

8. (previously presented) The implant system of claim 5 wherein the fiber reinforced composite material is disposed in and between the vertically extending grooves.

9. (previously presented) A framework for an implant system comprising:  
one or more cylinders, wherein the cylinders each comprise a substantially cylindrical body and one or more shelves disposed on a surface of the substantially cylindrical body, wherein the one or more shelves comprise one or more grooves having at least two sides; and fiber reinforced composite material retained on the cylinders and wherein the fiber reinforced composite material is in the shape of bars.

10. (previously presented) The implant system of claim 5 wherein the fiber reinforced composite material is wrapped around the one or more cylinders.

11. (previously presented). The implant system of claim 6 wherein the fiber reinforced composite material is disposed in and between the vertically extending grooves and is wrapped around the one or more cylinders.

12. (cancelled)

13. (previously presented) An implant system comprising:  
one or more abutments for connection to implants; and  
a prosthesis comprising one or more cylinders for connection to the one or more abutments wherein each cylinder comprises a substantially cylindrical body, one or more horizontally extending grooves having at least two sides, wherein the horizontally extending grooves are disposed on the surface of the cylindrical body, and one or more vertically extending grooves having at least two sides, wherein the vertically extending grooves are disposed on the surface of the cylindrical body; and

fiber reinforced composite material retained on the cylinders.

14. (original) The implant system of claim 13 further comprising implants.

15. (previously amended) The implant system of claim 13 wherein the fiber reinforced composite material is disposed in and between the vertically extending grooves and is wrapped around the one or more cylinders.

16. (previously amended) An implant system comprising:

one or more abutments for connection to implants;

a prosthesis comprising one or more cylinders for connection to the abutments wherein each cylinder comprises a substantially cylindrical body, one or more horizontally extending grooves having at least two sides, wherein the horizontally extending grooves are disposed on the surface of the cylindrical body, and one or more vertically extending grooves having at least two sides, wherein the vertically extending grooves are disposed on the surface of the cylindrical body; and  
a structural material disposed on the cylinders.

17. (original) The implant system of claim 16 further comprising implants.

18. (original) The implant system of claim 16 wherein the structural material comprises fiber-reinforced composite material.

19. (previously presented) The implant system of claim 1 wherein the cylinder is fabricated of a material selected from plastic, ceramic, polymeric material, and mixtures thereof.

20. (previously presented) The implant system of claim 5 wherein the fiber reinforced composite material comprises a polymeric matrix and fibers dispersed in the polymeric matrix.

21. (previously presented) The implant system of claim 20 wherein the fiber-reinforced composite material further comprises a filler material.

22. (previously presented) The implant system of claim 20 wherein the polymeric matrix is selected from the group of polyamides, polyesters, polyolefins, polyimides, polyacrylates, polyurethanes, vinyl esters, nylon, epoxy-based materials, styrene, styrene acrylonitrile, ABS polymers, polysulfones, polyacetals, polycarbonates, polyphenylene sulfides and mixtures thereof.

23. (previously presented) The implant system of claim 20 wherein the fibers are fabricated from materials selected from glass, carbon, graphite, polyaramid, polyethylene and mixtures thereof.

24. (previously presented) The implant system of claim 21 wherein the filler material is selected from silica, silicate glass, quartz, barium silicate, strontium silicate, barium borosilicate, strontium borosilicate, borosilicate, lithium silicate, amorphous silica, ammoniated or deammoniated calcium phosphate, alumina, zirconia, tin oxide, titania poly(methacrylate) and mixtures thereof.

25. (cancelled)

26. (cancelled)

27. (previously presented) A method of making a prosthesis for an implant system comprising:

placing a series of cylinders onto a cast wherein each cylinder comprises a substantially cylindrical body, one or more horizontally extending grooves having at least two sides, wherein the horizontally extending grooves are disposed on the surface of the cylindrical body, and one or more vertically extending grooves having at least two sides, wherein the vertically extending grooves are disposed on the surface of the cylindrical body; and

building a structural framework on the series of cylinders.

28. (original) The method of claim 27 wherein the structural framework comprises fiber reinforced composite material.

29. (currently amended) The method of claim 27 further comprising building teeth on the framework.

30. (original) The method of claim 29 further comprising inserting the implant system into a patient's mouth.

31. (previously presented) An implant system comprising:

one or more abutments for connection to implants;

a prosthesis comprising one or more cylinders for connection to the one or more abutments wherein each cylinder comprises a substantially cylindrical body and one or more grooves having at least two sides, wherein the grooves are disposed on a surface of the substantially cylindrical body; and

fiber reinforced composite material retained on the cylinders.

32. (previously presented) An implant system comprising:

one or more abutments for connection to implants;

a prosthesis comprising one or more cylinders for connection to the abutments wherein each cylinder comprises a substantially cylindrical body and one or more grooves having at least two sides, wherein the grooves are disposed on a surface of the substantially cylindrical body; and

a structural material disposed on the cylinders.

33 – 42 (deleted)

43. (currently amended) The multi-unit implant system of claim 1 wherein one or more cylinders comprises ~~A cylinder designed to retain a structural framework material;~~

~~composite material, or ceramic material for a prosthesis in an implant system for placement in the mouth comprising:~~

- ~~— a substantially cylindrical body;~~
- ~~one or more grooves having at least two sides, wherein the grooves are disposed on a surface of the substantially cylindrical body; and~~
- ~~a cantilever extending from the cylindrical body.~~

44. (currently amended) The multi-unit implant system of claim 1 wherein one or more cylinders comprises ~~A cylinder designed to retain a structural framework material, composite material, or ceramic material for a prosthesis in an implant system for placement in the mouth comprising:~~

- ~~a substantially cylindrical body;~~
- ~~one or more grooves having at least two sides, wherein the grooves are disposed on a surface of the substantially cylindrical body; and~~
- ~~a series of nodules, holes or beads disposed on a surface of the cylindrical body.~~

45. (currently amended) A kit for the manufacture of a multi-unit ~~prosthesis for an~~ implant system for placement in the mouth comprising:

- ~~one or more cylinders designed to retain a structural framework material, composite material, or ceramic material, wherein the cylinders comprise a substantially cylindrical body~~ and one or more shelves are disposed on a surface of the substantially cylindrical body; wherein the one or more shelves comprise ~~and one or more grooves having at least two sides, wherein the grooves are disposed on a surface of the substantially cylindrical body, and wherein the one or more grooves comprise one or more horizontally extending grooves and one or more vertically extending grooves.~~

46. (currently amended) The kit of claim 45 further including ~~A kit for the manufacture of a prosthesis for an implant system for placement in the mouth comprising:~~

- ~~composite material; and~~

~~one or more cylinders designed to retain a structural framework material, composite material, or ceramic material, wherein the cylinders comprise a substantially cylindrical body; and one or more grooves having at least two sides, wherein the grooves are disposed on a surface of the substantially cylindrical body.~~

47. (original) The kit of claim 45 further including abutments, implants, and composite material.

48. (original) The kit of claim 47 further including bonding resin and screws.